

DEPARTMENT OF TRANSPORTATION -Toll Bridge Program

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August 06, 2010

Contract No. 04-0120F4
04-SF-80-13.2 / 13.9
Self-Anchored Suspension Bridge
Letter No. 05.03.01-007934

Michael Flowers
Project Executive
American Bridge/Fluor, A JV
375 Burma Road
Oakland, CA 94607

Dear Michael Flowers,

Authority to Proceed - CCO 120 - Hinge A Modifications

In accordance with the provisions of Section 4-1.03, "Changes," of the Standard Specifications you are hereby authorized to proceed with the changes presented in the attached draft change order and plan sheet package for Contract Change Order (CCO) No. 120, "Hinge A Modifications." Attached are the following plan sheets:

Plan Sheets				
694R1	694S1	696R1	704S1	712R1
712S1	714R1	714S1	714S2	849R1
850R1	851R1	852R2	853R1	853S1
854R1	855R1	857R1	863R2	982R1

The general scope of the change includes the following:

- Shortens the SAS by 160mm to account for the as-built location of the Skyway
- Shortens the plates at the seismic joint concrete block-out by 60mm to account for the longer length of the Skyway and provides provisions for field trimming these plates based upon the as-built SAS/Skyway gap
- Provides a bolted drop-in piece at the bottom of the OBG to be erected after Lift 14 to clear the Hinge A pipe beams that protrude from the Skyway
- Modifies the location and size of the hinge pipe beam diaphragm sleeves to accommodate the anticipated location of the Skyway when it is joined to the SAS
- Adds provisions for leveling the seismic joint for cross slope misalignment between the SAS and Skyway
- Shims the restrainer brackets to align the bearing pads within the pipe sleeve
- Lengthens the fixed bearing restrainer bracket bolts and changes the bolt grade to allow increased adjustment to the pipe beam bearings
- Supplies new 63.5 diameter x 530 long threaded galvanized anchor rods (ASTM A449) for the fixed bearings

- Provides a strong back system capable of aligning the SAS and Skyway at the centerline of the top deck in the transverse direction
- Revises the gap disposition between the hinge pipe beams and the circular segmented bearings for the temporary supported condition during erection
- Eliminates the CJP connecting the tapered stiffener to the pipe sleeve and provides a gap between this stiffener and pipe sleeve at Diaphragm A
- Uses double-fillet welds in lieu of CJP welds for connecting the diagonal stiffeners that span full length between the hinge pipe sleeves and the vertical/horizontal stiffeners to the floorbeam web at PP127, PP127.3, and PP 128.3
- Modifies the stiffener configuration at the diaphragm pipe sleeves
- Provides slotted holes for the bearing anchor rods at the diaphragm pipe sleeves and bearing support stiffener plates
- Provides spherical nuts and washers for the anchor rods for the fixed bearings
- Replaces the steel shims between the circular segmented bearings and the diaphragm pipe sleeves with high-strength non-shrink grout
- Modifies the nut tightening requirement for anchor rods at the circular segmented bearings
- Ships the State furnished circular segmented bearings and components to ZPMC for shop assembly and trial fit in the pipe sleeves of diaphragms A and B

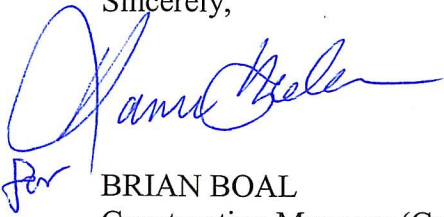
These CCO sheets incorporate the following previous authorizations:

- CCO 120 ATP sketches issued via State Letters 05.03.01-004573, 004595, and 004661. However, ATP Sketches 0893R2-SK-01 and 0894R2-SK-01 issued via State Letter 05.03.01-004573 regarding barrier rail adjustments for cross slope misalignment between the SAS and Skyway are no longer included in this CCO and will instead be included in an update to CCO 25S1 to consolidate all the barrier rail changes at Hinge A into one CCO.
- CCO 87 ATP Sketches 0714R0-SK-01, 0851R0-SK-01, 0852R1-SK-01, 0853R0-SK-01, and 0854R0-SK-01 issued in State Letter 05.03.01-003321 are hereby moved to CCO 120 because these changes are in the Hinge A area that is in the scope of CCO 120.
- The responses to ABF-RFI-001771R00, ABF-RFI-001771R01, ABF-RFI-002041R00, and ABF-RFI-002188R00.
- The details in TVC-RFI-0006R0, TVC-RFI-0008R0, and TVC-RFI-0143R0.
- The details in TC-RFI-0041R0, TC-RFI-0076R0, and TC-RFI-0076R1.
- The changed bolt grade for the restrainer bracket bolts issued via State Letter 05.03.01-006606 dated January 29, 2010.

The draft CCO also addresses nut tightening requirement changes for the Hinge A bearing anchor rods and transport of the State furnished circular segmented bearings and components to ZPMC for shop assembly and trial fit in the pipe sleeves of diaphragms A and B issued via State Letter 05.03.01-007645 dated July 1, 2010.

An electronic (PDF) copy of the plan sheets will be transmitted via the PMIV Plan Sheet Library. Please provide a summary of cost impacts due to the changes presented in the change order. Upon review, substantiation and agreement on scope and cost, the final CCO will be issued.

Sincerely,



BRIAN BOAL
Construction Manager (Cable)

For: GARY PURSELL
Resident Engineer

Attachment

cc: Kannu Balan
Brian Boal
Bill Casey
file: 05.03.01, 49.087, 49.120